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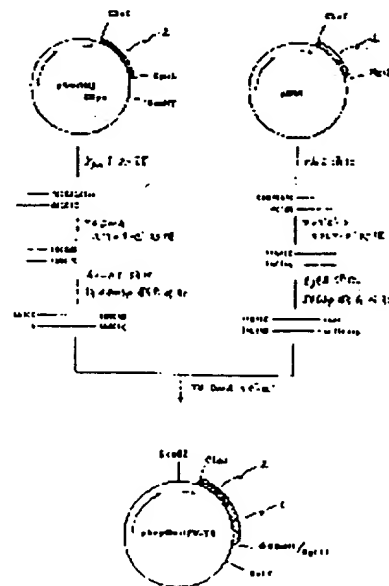
JP

(54) INTERFERON CONJUGATE AND PRODUCTION THEREOF

(57)Abstract:

PURPOSE: To readily obtain an interferon (IFN) conjugate, having strong activity and useful as an antiviral agent, antitumor agent, etc., by cultivating a transformant transformed by a specific recombinant DNA.

CONSTITUTION: A β -type IFN is linked to a γ -type IFN by genetic manipulation to provide an IFN conjugate (A). A base sequence for coding the component (A) is subsequently synthesized by a DNA synthetic method, etc., and a promoter sequence (e.g. trp promoter) for starting transcription, SD sequence for translation and ATG codon are imparted to the front part of the base sequence to afford a recombinant DNA (B), which is then linked to a plasmid pBR322 and introduced into Escherichia coli to afford a transformant E.coli HB101 (pyrpbhu IFN- γ B) (C). The transformant (C) is subsequently cultivated in a liquid culture medium containing indoleacrylic acid, etc., and the culture fluid is filtered to provide microbial cells, which are then subjected to crushing under pressure and extraction treatment to afford an extract solution. The resultant



extract solution is subjected to treatment, such as ion exchange or a electrophoresis, to isolate the aimed interferon conjugate.

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